

IN THE CLAIMS:

Please cancel claims ~~1~~-15 on Amended Sheets 12, 12a, 13, 13a and 14, and add the following claims:

- 5 ~~16~~. A surface acoustic wave arrangement comprising a piezoelectric substrate; at least two surface acoustic wave structures being fitted on the substrate, said structures being arranged one behind the other in a propagation direction of the surface acoustic waves and having metallic fingers with a first and second finger period, said two surface acoustic wave structures having differences selected from different phase, different finger period, and a combination of different phase and
- 10 ~~17~~. A surface acoustic wave arrangement according to claim ~~16~~, wherein the junction region is formed by a first of the two surface acoustic wave structures to a second of the two surface acoustic wave structures, the local finger period of the first surface acoustic wave structure initially decreasing continuously in the junction region and finally rising continuously again until the finger period of the second surface acoustic wave structure is reached. ~
- 15

~~17~~. A surface acoustic wave arrangement according to claim ~~16~~, wherein the junction region is formed by 5 to 10 fingers and the ends of the two surface acoustic wave structures. ~

- 20 ~~18~~. A surface acoustic wave arrangement according to claim ~~16~~, wherein at least one of the two surface acoustic wave structures is in the form of an interdigital transducer. ~

~~19~~. A surface acoustic wave arrangement according to claim ~~18~~, wherein a second surface acoustic wave structure is in the form of a reflector. ~

23

a

⁵
~~20~~. A surface acoustic wave arrangement according to claim ~~16~~, wherein
the two surface acoustic wave structures are in the form of reflectors.~

⁶
~~21~~. A surface acoustic wave arrangement according to claim ~~16~~, wherein
the width of the fingers of the surface acoustic wave structure initially decreases and
5 then increases again in the junction region.~

⁷
~~22~~. A surface acoustic wave arrangement according to claim ~~16~~, wherein
the surface acoustic structure has a metallization ratio η of 0.7 to 0.8.~

⁸
~~23~~. A surface acoustic wave arrangement according to claim ~~16~~, wherein
the arrangement is in the form of a dual mode surface acoustic wave filter with
10 interdigital transducers which are used as input and output transducers being
arranged between two reflectors in one acoustic track, the surface acoustic wave
structures being selected from interdigital transducers and reflectors.~

⁹
~~24~~. A surface acoustic wave arrangement according to claim ~~23~~, wherein
the reflectors are connected to ground.~

¹⁰
~~25~~. A surface acoustic wave arrangement according to claim ~~23~~, wherein
15 a metallization height of the surface acoustic wave structures is in a range of 9 to
11% of the wavelength of the surface acoustic wave structures.~

¹¹
~~26~~. A surface acoustic wave arrangement according to claim ~~16~~, wherein
the substrate is selected from a 42° ^{rot} ~~red~~ YX-LiTaO₃ substrate and a 36° ^{rot} ~~red~~ YX-
20 LiTaO₃ substrate.~

AS
cont.

3/12/02
BB

24

a

12
~~27~~. A surface acoustic wave arrangement according to claim ~~16~~, which includes three interdigital transducers which are arranged one behind the other between two reflectors with the central interdigital transducer being connected to a first connection having a total of 27 to 35 electrode fingers and the two outer interdigital transducers being connected to a second connection and having a total of 20 to 24 electrode fingers.~

13
~~28~~. A surface acoustic wave arrangement according to claim ~~27~~, wherein a distance between the central interdigital transducer and the two outer interdigital transducers are of different magnitude.~

14
~~29~~. A surface acoustic wave arrangement according to claim ~~16~~, which is in the form of a two-track arrangement with the finger periods of the reflectors and the two tracks being of different magnitude.~

15
~~30~~. A surface acoustic wave arrangement according to claim ~~16~~, which is in the form of a reactance filter with single-port resonators with a junction between the different finger periods of the interdigital transducer and a reflector in at least one single-port resonator.~

AS
Concl.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

25

a